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APPLICATION NO. FILING	G DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/708,652 03/1	7/2004	Alan Smithies	15880.10026	2651
27128 7590 01/30/2007 BLACKWELL SANDERS PEPER MARTIN LLP 720 OLIVE STREET SUITE 2400 ST. LOUIS, MO 63101			EXAMINER	
			CAMERON, ERMA C	
			ART UNIT	PAPER NUMBER
31. LOOIS, MO 03101			1762	
SHORTENED STATUTORY PERIOD OF	RESPONSE	MAIL DATE	DELIVER	Y MODE
3 MONTHS		01/30/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)					
	10/708,652	SMITHIES, ALAN					
Office Action Summary	Examiner	Art Unit					
	Erma Cameron	1762					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tim ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 13 No	ovember 2006.						
2a) This action is FINAL . 2b) ⊠ This action is non-final.							
<i>,</i>							
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>1-17 and 19-21</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5)⊠ Claim(s) <u>16,17 and 19-21</u> is/are allowed.							
6)⊠ Claim(s) <u>1-15</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the continue pot received.							
* See the attached detailed Office action for a list of the certified copies not received.							
·							
Attachment(s)							
1) Unotice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date							
3) Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informal Patent Application							
Paper No(s)/Mail Date 6) Other:							

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DETAILED ACTION

Response to Amendment

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1, 3-6 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over EP 726348.

'348 teaches applying a stiffening agent such as PAI (3:14-17) to a porous fibrous substrate such as an aramid substrate (see Example 1) to make a filter. The PAI is present at 1-30 wt% solids (3:19), which overlaps with applicant's claimed 5.5 wt%.

The material is then pleated at 200-250 degrees C (328-418 degrees F) (4:39-41). The operating temperature is as low as 200 degrees C (328 F) (2:33-39) or as high as 365 C (625 F).

If the pleating occurred at 250 degrees C (418 F) and the operational T is 240 C (400F), the process of '348 meets both the application (operational) T over 375 F and pleating at a higher T than the operating T.

The application amount is 2.5 to 23% of the weight of the fabric (see Table 2) which overlaps with applicant's claimed range.

Because '348 uses the same materials and forms the filter by the same processes, the filter formed by '348 must inherently possess the same capabilities as applicant's claimed filter, including the ability to withstand the same number/condition of cleaning pulses.

Response to Arguments

The applicant has argued that '348 teaches 18.7, 7.7 and 7% solids (Table 1). The examiner disagrees. '348 teaches that the PAI is present in an amount of 1 to 30 wt % (3:19). The 18.7, 7.7 and 7 wt % are merely exemplary.

3. Claims 2 and 9-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over EP 726348 taken in view of Fukata (4454189) or EP 1096057.

'348 is applied here for the reasons given above.

'348 fails to teach the calendaring step.

'057 teaches a calendaring step for fabric that is to be used to make a filter, both to adjust the thickness and to compact the fiber s at the surface ([0054]).

'189 teaches calendaring fabric that will be made into a filter to compact it and give it wet strength (4:20-29, 7:11-15).

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It would have been obvious to one of ordinary skill in the art to have added the calendaring step of '057 or '189 to the '348 process because of the advantages the calendaring process adds – adjusting thickness, compacting the fabric and giving it wet strength.

Response to Arguments

See above.

Allowable Subject Matter

4. Claims 16-17 and 19-21 are allowed.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Erma Cameron whose telephone number is 571-272-1416. The examiner can normally be reached on 8:30-6:00, alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Meeks can be reached on 571-272-1423. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ERMA CAMERON PRIMARY EXAMINER Erma Cameron Primary Examiner Art Unit 1762 Page 5

January 23, 2007